NAME _____ DATE _____ PERIOD _____

Test, Form 1B

SCORE _____

Write the letter for the correct answer in the blank at the right of each question.

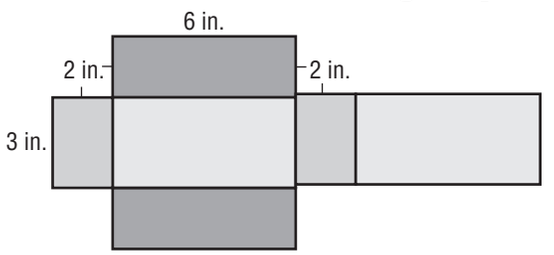
1. A rectangular inflatable swimming pool is 3 yards long, $2\frac{4}{5}$ yards wide, and $1\frac{2}{5}$ yards tall. What is the volume of the pool? Round to the nearest tenth.

A. 7.2 yd^3 **C.** 27 yd^3

B. 11.8 yd^3 **D.** 33.0 yd^3

1. _____

2. What is the surface area of the rectangular prism below?



F. 72 in^2 **H.** 720 in^2

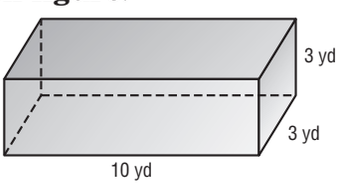
G. 144 in^2 **I.** 1,440 in^2

2. _____

For Exercises 3 and 4, find the volume of each figure. Round to the nearest tenth if necessary.

3. A. 90 yd^3 **C.** 45 yd^3

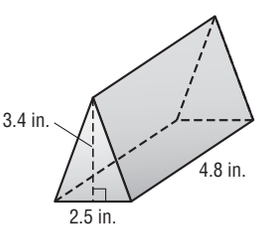
B. 60 yd^3 **D.** 30 yd^3



3. _____

4. F. 40.8 in^3 **H.** 13.6 in^3

G. 20.4 in^3 **I.** 2.4 in^3



4. _____

5. A storage container is in the shape of a rectangular prism. The container has a length of 10 feet, a width of 8 feet, and a height of 12 feet. What is the surface area of the container?

A. 960 ft^2 **C.** 96 ft^2

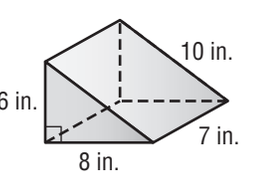
B. 592 ft^2 **D.** 60 ft^2

5. _____

6. What is the surface area of the triangular prism?

F. 168 in^2 **H.** 264 in^2

G. 216 in^2 **I.** 3,360 in^2



6. _____

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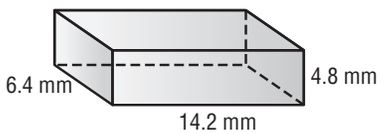
NAME _____ DATE _____ PERIOD _____

Test, Form 1B *(continued)*

SCORE _____

7. What is the volume of the rectangular prism? Round to the nearest tenth if necessary.



A. 25.4 mm^3 **C.** 379.5 mm^3

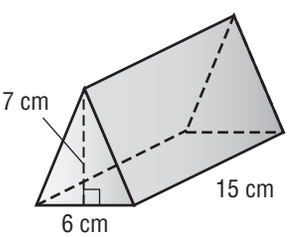
B. 76.2 mm^3 **D.** 436.2 mm^3 **7.** _____

8. A department store wraps gifts for its customers. What is the amount of wrapping paper it would take to wrap a gift box with a width of 8 inches, a height of 6 inches, and a length of 5 inches?

F. 236 in^2 **H.** 440 in^2

G. 240 in^2 **I.** 480 in^2 **8.** _____

9. A triangular prism has the dimensions shown at the right. What is the volume of the prism? Round to the nearest tenth if necessary.



A. 156 cm^3 **C.** 315 cm^3

B. 195 cm^3 **D.** 630 cm^3 **9.** _____

10. A paperweight in the shape of a square pyramid has a side length of 8.2 inches. The slant height is 15.9 inches. What is the surface area of the paper weight?

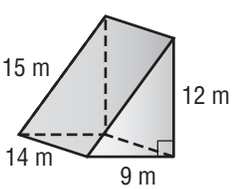
F. 328.0 in^2 **H.** 588.8 in^2

G. 513.6 in^2 **I.** 1,069.1 in^2 **10.** _____

11. What is the surface area of the triangular prism?

A. 612 m^2 **C.** 756 m^2

B. 720 m^2 **D.** 1,512 m^2

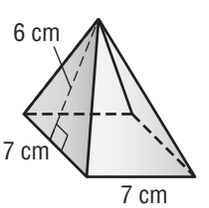


11. _____

12. What is the surface area of the square pyramid?

F. 294 cm^2 **H.** 133 cm^2

G. 217 cm^2 **I.** 70 cm^2



12. _____

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